

BEATBOX ALCHEMY PHONOGLYPH LANGUAGE

Master Reference Grammar & Lexicon

Public conlang specification, dictionary, orthography, and learning standard

Version 1.1

Public Specification Release - August 23, 2026

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A constructed vocal language in which Beatbox Alchemy sounds carry semantic roots, registered polyphony compresses vocabulary, and sequential sound-words form grammar.

Specification status: Version 1.1 grammar and lexicon are frozen for public sharing. This consolidated corrected edition supersedes all earlier Version 1.1 exports. Root glyphs are defined by canonical textual Symbol Descriptors; drawn glyph artwork and fonts remain implementation-level renderings rather than lexical authority.

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Release Summary

VERSION 1.1 PUBLIC FREEZE

This document is the authoritative public specification for the constructed language at Version 1.1. Later experimental notes do not supersede it unless explicitly incorporated into a numbered release.

Beatbox Alchemy Phonoglyph Language is a constructed vocal language built from 67 active Beatbox Alchemy sound elements. Each monophonic sound carries a semantic root. Registered two-sound polyphony can compress a lexeme into one simultaneous vocal event, while the same lexeme remains available through a serial allomorph for learners and speakers who do not yet use polyphony. Sequential sound-words form phrases and clauses.

Version 1.1 contains 67 monophonic roots, 90 unique Core polyphonic lexemes, 84 retained Extended polyphonic lexemes, a curated Canonical Phrase layer, Number and Calculation Mode, Sound Citation and proper-name enclosure, discourse recall, a descriptor-defined writing system, and an empirical validation protocol.

Public status: the grammar and lexical assignments in this document are frozen for Version 1.1. Empirical production tags such as Conversation-Ready remain testable performance claims rather than assumptions. Drawn glyphs are not authoritative; the textual Symbol Descriptors are.

Conlang Profile

Feature	Version 1.1 profile
Primary modality	Vocal / acoustic; built from beatbox sound mechanisms
Basic word order	Broadly SVO
Morphology	Mostly isolating/analytic, plus registered simultaneous two-root compounding
Inflection	No required verb conjugation, noun declension, article system, or grammatical gender
Modification	Quantity -> demonstrative -> noun -> description
Possession	Possessor before possessed; chains group left-to-right
Writing direction	Left-to-right, top-to-bottom
Script type	Phonographic; root symbols defined by textual Symbol Descriptors
Polyphony	Optional compression; serial allomorph always available
Rhythm / pitch	Expressive by default, not grammatical

Lexical Status Key

Status	Meaning
CORE	Required/stable public vocabulary; includes Core-90
EXTENDED	Stable optional vocabulary outside Core fluency
OPEN	Legal or potentially legal sound space with no assigned Version 1.1 meaning
RESERVED	Form protected for a grammatical, mode, or metalinguistic function

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1. Purpose and Design Laws

The language is designed to make beatboxing a vehicle for communication, preservation, training, and performance. The linguistic system is intentionally small at the root level and extensible through controlled fusion and composition.

One Sound, One Primary Root

Each of the 67 active monophonic sounds has one primary lexical identity. Related grammatical or pragmatic extensions must remain motivated and documented.

Compression Principle

Polyphony compresses meaning; it never gatekeeps meaning. Every registered polyphonic lexeme has a serial allomorph made from the same component roots in canonical order.

Physical Compatibility

A simultaneous lexeme is valid only if one speaker can physically produce its components together. Semantic elegance cannot override vocal mechanics.

No Assumed Triple Polyphony

Three-way polyphony is not licensed by pairwise compatibility. A triple stack must be separately demonstrated, tested, and registered.

One Registered Fusion, One Lexical Assignment

Within a numbered release, each registered fusion code has one lexical assignment. Related grammatical or metalinguistic extensions may share that form only when explicitly documented (for example, T7+U1 - Duck Scratch Burst + K Snare = FUNCTION / OPERATE with modal CAN, and L10+V8 - P Kick + Cough Snare = SIGN / SYMBOL with Sound Citation). Unrelated fusion homonyms are prohibited.

Canonical Phrase Principle

A stable sequential construction may be a dictionary term. The language does not consume unused polyphonic combinations merely to imitate one-word distinctions in English.

Open Vocabulary Space

A documented legal sound combination is available vocabulary space, not an obligation to assign a meaning. Unassigned forms remain OPEN.

Rhythm and Pitch

Rhythm, pitch, loudness, and performance styling are expressive by default. They do not change lexical identity unless a future release explicitly registers such a contrast.

Minimum-Effort Articulation

Conversational speech uses the lowest comfortable effort that preserves each sound identity. Full beatbox performance is a register, not a different grammar.

2. Notation and Parsing

Sound-name convention: worked examples give both the Beatbox Alchemy catalog code and full sound name. After the complete root inventory has established those mappings, compact reference tables may use catalog codes alone for density; such code-only cells are technical shorthand, not alternate names.

Notation	Meaning
/	Sequential production inside one utterance
+	Simultaneous production by one speaker
	Structural Juncture: a nonlexical parsing boundary
NUMBER[...]	Content interpreted inside Number or Calculation Mode

Notation	Meaning
CITATION[...]	Sound Citation or proper-name material
<	Inward airflow modifier in Symbol Descriptors
-	Sustained modifier in Symbol Descriptors
ALL CAPS	Semantic gloss, not mandatory English wording

2.1 Structural Juncture

A Structural Juncture is a brief nonlexical pause used when a constituent or clause boundary must be made explicit. Exact duration is not grammatical. In technical transliteration it is written |. A Juncture can occur inside one speaker's turn and does not itself yield the conversational floor.

2.2 Registered Serial Allomorphs

Every registered two-part polyphonic lexeme has a serial allomorph consisting of its component roots in canonical listed order with no Structural Juncture between them. Longest registered lexical match interprets that sequence as the same lexeme. A Structural Juncture between the components forces an ordinary analytic/root reading.

Example: T19 - S Snare Burst / V6 - Throat Kick is the serial allomorph of LEARN; T19 - S Snare Burst | V6 - Throat Kick means RECEIVE | KNOW as separate constituents.

2.3 Polyphonic Form

The compressed form requires audible temporal overlap by one speaker. Exact simultaneous onset is unnecessary. Cross-speaker overlap never forms a lexical fusion.

2.4 Longest-Match Parsing

Registered lexical and grammatical sequences are recognized by longest match unless interrupted by a Structural Juncture or overridden by an active mode. This rule resolves serial allomorphs and operators such as OR.

2.5 Collision-Blocking Juncture

If two independent adjacent constituents would accidentally spell a registered serial allomorph or fixed grammatical sequence, a Structural Juncture is mandatory at their boundary. The Juncture blocks unintended lexical rebracketing without ending the sentence or yielding the conversational floor. Example: L14 - Tennis Pop / V11 - Normal Voice is the serial allomorph of RIGHT, so WATER followed by the recipient SELF/ME must be pronounced L14 - Tennis Pop | V11 - Normal Voice when those are separate constituents.

3. Semantic Gates

Gate	Semantic tendency	Examples
Lip	Matter / Objects / Physical Reality	material, thing, body, water, food, place
Tongue	Action / Motion / Relationship	move, give, receive, join, separate, begin, stop
Uvular	State / Environment / Time	exist, not, now, time, past, future
Vocal	Mind / Identity / Social / Abstract	self, you, person, know, think, want, good, bad
Nose	Reserved	No dedicated active numbered roots in Version 1.1

Gate classification is semantic and pedagogical metadata. It is not the visible skeleton of ordinary phonoglyphs.

4. The 67 Monophonic Roots

Historical T32 Laser Whistle and U7 Throat Whistle are inactive and do not belong to the Version 1.1 root inventory. Frequency labels: F1 Essential, F2 Core, F3 Expanding, G1 unusually high grammatical productivity.

Symbol Descriptor default: each glyph includes a center dot unless explicitly stated. In descriptor shorthand, < means inward airflow and - means sustained. No modifier means the default/burst form for the registered family.

4.1 Lip Gate

Code	Full sound name	Root meaning	Symbol descriptor	Priority
L1	Lip Roll Burst	MATERIAL / SUBSTANCE	Open ring + twin lower hooks	F3
L2	Lip Roll Sustained	BIG / GREAT	L1 + -	F2
L3	Inward Lip Roll Burst	SMALL / LITTLE	L1 + <	F2
L4	Inward Lip Roll Pop	ONE / SINGLE	Small ring + left notch	F2
L5	Inward Lip Roll Sustained	INSIDE / INTERIOR	L1 + < -	F2
L6	Spit Snare	AIR / GAS	Diamond + bottom stem	F3
L7	F Snare	FOOD / NOURISHMENT	Square + bottom stem	F1
L8	F Roll Burst	THIS / NEAR	Ring + left diagonal	F2
L9	F Roll Sustained	THAT / FAR	L8 + -	F2
L10	P Kick	THING / OBJECT	Ring + bottom stem	F1
L11	Inward P Kick	LIFE / ALIVE	Ring + lower-left notch	F3
L12	Zipper Burst	PLACE / SPACE	Arch + right top tick	F1
L13	Zipper Sustained	PATH / CHANNEL / PASSAGE	L12 + -	F3
L14	Tennis Pop	WATER / LIQUID	Broken-bottom ring + bottom stem	F1
L15	Pop	BODY	Small ring + bottom tick	F2
L16	Ghost Whistle	DEATH / DEAD	Open diamond + top stem	F3
L17	Inward Ghost Whistle	BREATH / RESPIRATION	L16 + <	F3
L18	Lip Scratch	EDGE / BOUNDARY / SURFACE	Vertical zigzag	F3 / G1
L19	Fart Roll	MANY / MUCH	Double arch + bottom stem	F2

4.2 Tongue Gate

Code	Full sound name	Root meaning	Symbol descriptor	Priority
T1	T Roll Burst	CHANGE / BECOME	Arch + twin inward hooks	F2
T2	T Roll Sustained	DEVELOP / GROW / EVOLVE	T1 + -	F3
T3	T Snare	QUESTION / ASK	Top bar + down stem + lower U	F1 / G1
T4	Tsh Snare	ANSWER / RESPOND	T3 + right diagonal	F3
T5	T Hi-Hat	MOVE / GO	Inverted triangle + center stem	F1
T6	Ts Hi-Hat	FOLLOW / ALONG	Inverted triangle + forked center stem	F3
T7	Duck Scratch Burst	DO / USE	Arch + twin outward hooks	F1
T8	Duck Scratch Sustained	PRACTICE / TRAIN	T7 + -	F1
T9	Inward Duck Scratch Burst	COME / APPROACH	T7 + <	F2
T10	Inward Duck Scratch Sustained	STAY / REMAIN	T7 + < -	F2
T11	D Roll Burst	SAME / REPEAT	Arch + twin inward curls	F1 / G1
T12	D Roll Sustained	CYCLE / HABIT / ROUTINE	T11 + -	F3
T13	Inward D Roll Burst	REVERSE / UNDO	T11 + <	F3
T14	Inward D Roll Sustained	RESTORE / RECOVER	T11 + < -	F3
T15	Sh Scratch Burst	GIVE / SEND	Arch + left zigzag terminal	F1
T16	Sh Scratch Sustained	TRANSMIT / BROADCAST	T15 + -	F3
T17	Ch Snare Burst	BEGIN / START	Arch + right zigzag terminal	F2
T18	Ch Snare Sustained	CONTINUE / PROCEED	T17 + -	F2
T19	S Snare Burst	TAKE / RECEIVE	Arch + left notch	F1

Code	Full sound name	Root meaning	Symbol descriptor	Priority
T20	S Snare Sustained	GATHER / COLLECT	T19 + -	F2
T21	Click	TOUCH / CONTACT	Ring	F1
T22	Hollow Click	PERCEIVE / SEE	Double ring	F1 / G1
T23	Cheek Click	JOIN / WITH	Ring + right stem	F2 / G1
T24	Hollow Clap	SEPARATE / FROM	Broken-bottom double ring	F2 / G1
T25	Inward L Roll	PULL / DRAW / ATTRACT; TOWARD	J-curve + top hook	F3
T26	Inward Hollow Whistle Burst	OPEN	Open diamond + <	F3 / G1
T27	Inward Hollow Whistle Sustained	ALLOW / PERMIT	T26 + -	F3
T28	D Pop	MAKE / CREATE / CAUSE	Small ring + top stem	F1
T29	Sucker Punch	STOP / BLOCK / PREVENT	Square + top stem	F2
T30	Chirp Whistle	UP / RISE / HIGH	Up-chevron + bottom stem	F2
T31	Saxophone	DOWN / FALL / LOW	Down-chevron + top stem	F2

4.3 Uvular Gate

Code	Full sound name	Root meaning	Symbol descriptor	Priority
U1	K Snare	BE / EXIST / PRESENT	Arch + center top stem	F1 / G1
U2	Inward K Snare	NOT / ABSENT	U1 + <	F1 / G1
U3	Evil Bass Burst	NOW / MOMENT	Wide U + twin top hooks	F2
U4	Evil Bass Sustained	TIME / DURATION	U3 + -	F2
U5	Snore Kick	PAST / BEFORE	Arch + bottom stem	F2
U6	Snore Bass	FUTURE / AFTER	Arch + twin bottom stems	F2

4.4 Vocal Gate

Code	Full sound name	Root meaning	Symbol descriptor	Priority
V1	Throat Bass	PERSON / OTHER	U-curve + bottom stem	F1
V2	Chest Bass	GOOD / WELL / STRONG	Ring + top and bottom stems	F1
V3	Inward Bass	FEEL / EMOTION	U-curve + left hook	F2
V4	Strained Voice	BAD / WRONG / HARMFUL	U-curve + center zigzag	F1
V5	Inward Voice	WANT / DESIRE	U-curve + twin inward top hooks	F1
V6	Throat Kick	KNOW / UNDERSTAND	U-curve + detached top stem	F1
V7	Double Voice	WE / US	Double U-curve	F3
V8	Cough Snare	SPEAK / EXPRESS	Arch + forked bottom stem	F1
V9	Vocal Polyphonic	THINK / THOUGHT / IDEA	Ring + inner vertical split	F2
V10	Falsetto	YOU	U-curve + top stem	F1
V11	Normal Voice	SELF / I / ME	Ring + right tick	F1

5. Core Polyphonic Lexicon: Core-90

Core-90 is the public Core polyphonic vocabulary. It contains 90 unique registered fusion codes. The first 50 entries remain the Fusion-50 certification set; later Core additions expand ordinary fluency without changing that original training milestone. All 90 entries also have registered serial allomorphs.

CORE is a lexical-status label, not an empirical production claim. Every Core item is usable through its registered serial allomorph; the simultaneous form receives PV, CR, or PR status only after the relevant production testing.

#	Code	Full simultaneous sounds	Meaning	Layer
1	T19+V6	S Snare Burst + Throat Kick	LEARN	Compositional

#	Code	Full simultaneous sounds	Meaning	Layer
2	L1+T7	Lip Roll Burst + Duck Scratch Burst	TOOL / IMPLEMENT	Compositional
3	L14+T19	Tennis Pop + S Snare Burst	DRINK	Compositional
4	T19+U1	S Snare Burst + K Snare	HAVE / POSSESS	Compositional
5	T7+V2	Duck Scratch Burst + Chest Bass	HELP / ASSIST	Compositional
6	T7+V4	Duck Scratch Burst + Strained Voice	HARM	Compositional
7	T16+V2	Sh Scratch Sustained + Chest Bass	TEACH	Compositional
8	T7+U1	Duck Scratch Burst + K Snare	FUNCTION / OPERATE; CAN before predicate	Compositional + Grammar
9	L18+V6	Lip Scratch + Throat Kick	RULE / KNOWN LIMIT	Compositional
10	U1+V6	K Snare + Throat Kick	TRUTH / FACT	Compositional
11	L12+V5	Zipper Burst + Inward Voice	HOME	Compositional
12	L13+V5	Zipper Sustained + Inward Voice	DESTINATION	Compositional
13	L12+T13	Zipper Burst + Inward D Roll Burst	RETURN / GO BACK	Compositional
14	L18+U1	Lip Scratch + K Snare	WALL / BARRIER	Compositional
15	L18+V2	Lip Scratch + Chest Bass	PROTECTION / SAFETY	Compositional
16	T11+V6	D Roll Burst + Throat Kick	REMEMBER	Compositional
17	T22+V1	Hollow Click + Throat Bass	RECOGNIZE	Compositional
18	T23+V6	Cheek Click + Throat Kick	AGREE / SHARED UNDERSTANDING	Compositional
19	T23+V5	Cheek Click + Inward Voice	BELONG / BELONGING	Compositional
20	T23+V2	Cheek Click + Chest Bass	COOPERATE / ALLIANCE	Compositional
21	T23+V3	Cheek Click + Inward Bass	LOVE / AFFECTION	Compositional
22	T24+V3	Hollow Clap + Inward Bass	FEAR / AVERSION	Compositional
23	T13+V5	Inward D Roll Burst + Inward Voice	REGRET	Compositional
24	T14+V3	Inward D Roll Sustained + Inward Bass	RELIEF	Compositional
25	U6+V5	Snore Bass + Inward Voice	HOPE	Compositional
26	L15+V2	Pop + Chest Bass	HEALTH / HEALTHY	Compositional
27	L15+V4	Pop + Strained Voice	PAIN	Compositional
28	L15+T28	Pop + D Pop	BIRTH / GENERATE LIFE	Compositional
29	L16+T28	Ghost Whistle + D Pop	KILL / CAUSE DEATH	Compositional
30	L16+U1	Ghost Whistle + K Snare	CORPSE / DEAD BODY	Compositional
31	T21+V8	Click + Cough Snare	SOUND / ACOUSTIC EVENT	Lexicalized Core
32	T24+V8	Hollow Clap + Cough Snare	WORD / DISTINCT UTTERANCE	Compositional
33	L10+V8	P Kick + Cough Snare	SIGN / SYMBOL; citation/name enclosure	Compositional + Grammar
34	L1+V8	Lip Roll Burst + Cough Snare	RECORD / INSCRIPTION	Compositional
35	L18+V8	Lip Scratch + Cough Snare	DEFINITION	Compositional
36	L2+T16	Lip Roll Sustained + Sh Scratch Sustained	FIRE	Lexical Fusion
37	L2+T12	Lip Roll Sustained + D Roll Sustained	HOT / HEAT	Lexical Fusion
38	L5+T13	Inward Lip Roll Sustained + Inward D Roll Burst	COLD	Lexical Fusion
39	L16+V10	Ghost Whistle + Falsetto	LIGHT / ILLUMINATION	Lexical Fusion
40	L2+T8	Lip Roll Sustained + Duck Scratch Sustained	DAY / LOCAL DAY-CYCLE	Lexical Fusion

#	Code	Full simultaneous sounds	Meaning	Layer
41	T15+V11	Sh Scratch Burst + Normal Voice	RED	Lexical Fusion
42	T15+V10	Sh Scratch Burst + Falsetto	YELLOW	Lexical Fusion
43	T19+V11	S Snare Burst + Normal Voice	GREEN	Lexical Fusion
44	T19+V10	S Snare Burst + Falsetto	BLUE	Lexical Fusion
45	T4+V10	Tsh Snare + Falsetto	WHITE	Lexical Fusion
46	T4+V11	Tsh Snare + Normal Voice	BLACK	Lexical Fusion
47	U3+V2	Evil Bass Burst + Chest Bass	JOY / HAPPINESS	Lexical Fusion
48	U3+V4	Evil Bass Burst + Strained Voice	SADNESS / SORROW	Lexical Fusion
49	T30+V4	Chirp Whistle + Strained Voice	ANGER	Lexical Fusion
50	T9+V3	Inward Duck Scratch Burst + Inward Bass	SURPRISE	Lexical Fusion
51	T3+T19	T Snare + S Snare Burst	REQUEST / ASK FOR	Core Extension
52	T15+U1	Sh Scratch Burst + K Snare	PROVIDE / SUPPLY	Core Extension
53	T15+V5	Sh Scratch Burst + Inward Voice	OFFER	Core Extension
54	T19+V2	S Snare Burst + Chest Bass	BENEFIT	Core Extension
55	T19+V8	S Snare Burst + Cough Snare	HEAR / LISTEN	Core Extension
56	L7+T19	F Snare + S Snare Burst	EAT	Core Extension
57	T24+U6	Hollow Clop + Snore Bass	FAREWELL / GOODBYE	Core Extension
58	T20+V1	S Snare Sustained + Throat Bass	GROUP / ASSEMBLY	Core Extension
59	T20+V8	S Snare Sustained + Cough Snare	LANGUAGE	Core Extension
60	T21+V1	Click + Throat Bass	MEET	Core Extension
61	T23+V10	Cheek Click + Falsetto	PARTNER / COMPANION	Core Extension
62	T23+V11	Cheek Click + Normal Voice	FAMILY / KIN	Core Extension
63	T28+V1	D Pop + Throat Bass	PARENT / CREATOR	Core Extension
64	T28+V2	D Pop + Chest Bass	HEAL / REPAIR	Core Extension
65	T28+V4	D Pop + Strained Voice	DAMAGE	Core Extension
66	T28+V5	D Pop + Inward Voice	INTEND	Core Extension
67	T5+V9	T Hi-Hat + Vocal Polyphonic	PLAN	Core Extension
68	T22+U6	Hollow Click + Snore Bass	PREDICT / FORESEE	Core Extension
69	U3+V8	Evil Bass Burst + Cough Snare	NEWS / UPDATE	Core Extension
70	L10+V9	P Kick + Vocal Polyphonic	MODEL	Core Extension
71	L13+T25	Zipper Sustained + Inward L Roll	DIRECTION	Core Extension
72	L18+U4	Lip Scratch + Evil Bass Sustained	DEADLINE / TIME LIMIT	Core Extension
73	T11+U1	D Roll Burst + K Snare	STABLE / UNCHANGED	Core Extension
74	T30+V8	Chirp Whistle + Cough Snare	SHOUT / LOUD EXPRESSION	Core Extension
75	T16+U5	Sh Scratch Sustained + Snore Kick	TRADITION / HERITAGE	Core Extension
76	T11+V8	D Roll Burst + Cough Snare	RHYTHM	Promoted Core
77	T21+T24	Click + Hollow Clop	RELEASE / LET GO	Promoted Core
78	T23+V8	Cheek Click + Cough Snare	DIALOGUE / CONVERSE	Promoted Core
79	T24+V6	Hollow Clop + Throat Kick	DISTINGUISH	Promoted Core

#	Code	Full simultaneous sounds	Meaning	Layer
80	T26+U2	Inward Hollow Whistle Burst + Inward K Snare	CLOSE / SHUT	Promoted Core
81	T27+U2	Inward Hollow Whistle Sustained + Inward K Snare	FORBID	Promoted Core
82	T27+V5	Inward Hollow Whistle Sustained + Inward Voice	CONSENT	Promoted Core
83	U1+V4	K Snare + Strained Voice	PROBLEM / HARMFUL STATE	Promoted Core
84	U4+V1	Evil Bass Sustained + Throat Bass	AGE / LIFESPAN	Promoted Core
85	L14+V10	Tennis Pop + Falsetto	LEFT	Promoted Core
86	L14+V11	Tennis Pop + Normal Voice	RIGHT	Promoted Core
87	L11+T24	Inward P Kick + Hollow Clap	ORGANISM / INDIVIDUAL LIVING ENTITY	Gap-Fill Core
88	L15+U4	Pop + Evil Bass Sustained	SLEEP	Gap-Fill Core
89	T30+V10	Chirp Whistle + Falsetto	FRONT / AHEAD	Gap-Fill Core
90	T31+V10	Saxophone + Falsetto	BACK / BEHIND	Gap-Fill Core

6. Extended Polyphonic Lexicon

The 84 retained Extended words are stable Version 1.1 vocabulary but are not required for Core fluency. All other formerly speculative compound assignments not listed as Core or Extended are revoked and return to OPEN vocabulary space.

Code	Full simultaneous sounds	Extended meaning
L1+T24	Lip Roll Burst + Hollow Clap	PIECE / FRAGMENT
L7+T15	F Snare + Sh Scratch Burst	FEED
L7+V6	F Snare + Throat Kick	RECIPE
L10+T15	P Kick + Sh Scratch Burst	GIFT
L10+T28	P Kick + D Pop	ARTIFACT / MADE THING
L12+L18	Zipper Burst + Lip Scratch	ROOM / ENCLOSURE
L14+V1	Tennis Pop + Throat Bass	BLOOD
L14+V3	Tennis Pop + Inward Bass	TEARS
L14+V5	Tennis Pop + Inward Voice	THIRST
L15+T24	Pop + Hollow Clap	WOUND
L15+V3	Pop + Inward Bass	SENSATION
L15+V6	Pop + Throat Kick	ANATOMY
L18+V9	Lip Scratch + Vocal Polyphonic	CATEGORY
L19+V1	Fart Roll + Throat Bass	CROWD / MULTITUDE
L19+V2	Fart Roll + Chest Bass	ABUNDANCE / PLENTY
L19+T16	Fart Roll + Sh Scratch Sustained	MASS BROADCAST
T1+V6	T Roll Burst + Throat Kick	RECONSIDER / UPDATE UNDERSTANDING
T4+V2	Tsh Snare + Chest Bass	SOLUTION / CORRECT ANSWER
T4+V4	Tsh Snare + Strained Voice	ERROR / WRONG ANSWER
T5+V1	T Hi-Hat + Throat Bass	TRAVELER
T5+V2	T Hi-Hat + Chest Bass	PROGRESS
T5+V5	T Hi-Hat + Inward Voice	PURSUE
T5+V6	T Hi-Hat + Throat Kick	NAVIGATE
T5+V7	T Hi-Hat + Double Voice	MIGRATE / TRAVEL TOGETHER
T5+V8	T Hi-Hat + Cough Snare	DANCE
T8+V1	Duck Scratch Sustained + Throat Bass	TRAINEE / PRACTICING PERSON
T8+V2	Duck Scratch Sustained + Chest Bass	PROFICIENCY / SKILLED PRACTICE
T10+V5	Inward Duck Scratch Sustained + Inward Voice	COMMITMENT
T12+V2	D Roll Sustained + Chest Bass	HEALTHY HABIT

Code	Full simultaneous sounds	Extended meaning
T12+V4	D Roll Sustained + Strained Voice	BAD HABIT
T12+V8	D Roll Sustained + Cough Snare	REFRAIN / REPEATED EXPRESSION
T13+V3	Inward D Roll Burst + Inward Bass	CHANGE OF HEART
T15+V1	Sh Scratch Burst + Throat Bass	GIVER / SENDER
T15+V2	Sh Scratch Burst + Chest Bass	SUPPORT / PROVIDE AID
T15+V4	Sh Scratch Burst + Strained Voice	ATTACK
T15+V8	Sh Scratch Burst + Cough Snare	COMMUNICATE
T16+V1	Sh Scratch Sustained + Throat Bass	MESSENGER
T19+V1	S Snare Burst + Throat Bass	RECIPIENT
T19+V4	S Snare Burst + Strained Voice	SUFFER / RECEIVE HARM
T20+V2	S Snare Sustained + Chest Bass	TEAMWORK
T21+V2	Click + Chest Bass	SOOTHE / COMFORT BY CONTACT
T21+V3	Click + Inward Bass	CARESS / AFFECTIONATE TOUCH
T21+V4	Click + Strained Voice	STRIKE
T24+V1	Hollow Clap + Throat Bass	OUTSIDER
T24+V2	Hollow Clap + Chest Bass	AUTONOMY / BENEFICIAL INDEPENDENCE
T24+V4	Hollow Clap + Strained Voice	CONFLICT / HOSTILITY
T24+V5	Hollow Clap + Inward Voice	REJECT
T25+V3	Inward L Roll + Inward Bass	ATTRACTION
T25+V5	Inward L Roll + Inward Voice	CRAVING
T26+V3	Inward Hollow Whistle Burst + Inward Bass	EMOTIONAL OPENNESS
T26+V5	Inward Hollow Whistle Burst + Inward Voice	CURIOSITY
T27+V3	Inward Hollow Whistle Sustained + Inward Bass	ACCEPTANCE
T28+V3	D Pop + Inward Bass	ART
T28+V6	D Pop + Throat Kick	DESIGN / INVENT
T29+V3	Sucker Punch + Inward Bass	SUPPRESS FEELING / BECOME NUMB
T29+V5	Sucker Punch + Inward Voice	REFUSE / RESIST
T30+V1	Chirp Whistle + Throat Bass	LEADER
T30+V2	Chirp Whistle + Chest Bass	SUCCESS
T30+V6	Chirp Whistle + Throat Kick	INSIGHT
T30+V9	Chirp Whistle + Vocal Polyphonic	ASPIRATION
T31+V2	Saxophone + Chest Bass	GROUNDING / CALM
T31+V4	Saxophone + Strained Voice	FAILURE / SETBACK
T31+V6	Saxophone + Throat Kick	LIMITED / POOR UNDERSTANDING
T31+V8	Saxophone + Cough Snare	WHISPER
T31+V9	Saxophone + Vocal Polyphonic	PESSIMISM
U1+V2	K Snare + Chest Bass	VALID / WELL-FOUNDED
U1+V8	K Snare + Cough Snare	ASSERT / DECLARE
U2+U6	Inward K Snare + Snore Bass	NO FUTURE OCCURRENCE / NEVER AGAIN
U2+V3	Inward K Snare + Inward Bass	NUMBNESS
U2+V5	Inward K Snare + Inward Voice	CONTENTMENT
U3+V6	Evil Bass Burst + Throat Kick	AWARENESS
U4+V2	Evil Bass Sustained + Chest Bass	OPPORTUNITY
U5+V3	Snore Kick + Inward Bass	NOSTALGIA
U5+V5	Snore Kick + Inward Voice	LONGING FOR THE PAST
U6+V3	Snore Bass + Inward Bass	ANTICIPATION
T20+V10	S Snare Sustained + Falsetto	SWEET
T20+V11	S Snare Sustained + Normal Voice	BITTER
T21+V10	Click + Falsetto	SOUR
T21+V11	Click + Normal Voice	SALTY
T8+V10	Duck Scratch Sustained + Falsetto	SOFT

Code	Full simultaneous sounds	Extended meaning
T8+V11	Duck Scratch Sustained + Normal Voice	HARD
T12+V10	D Roll Sustained + Falsetto	SMOOTH
T12+V11	D Roll Sustained + Normal Voice	ROUGH
T24+V10	Hollow Clop + Falsetto	DISGUST

6.1 Reserved and Open Forms

L19+T11 - Fart Roll + D Roll Burst is RESERVED for NUMBER / NUMERICAL CONCEPT and Number/Calculation enclosure; a single ordinary occurrence is lexical NUMBER, while a matched pair delimits the mode. L10+V8 - P Kick + Cough Snare has the lexical meaning SIGN / SYMBOL and is RESERVED as the Sound Citation/proper-name enclosure. L5+V5 - Inward Lip Roll Sustained + Inward Voice is the RESERVED modal lexeme NEED / inner necessity; it is registered and has a serial allomorph but is not counted in Core-90. Other grammaticalized forms should not receive unrelated lexical meanings without a later version change.

The combinations L1+U1, L12+U2, L14+U4, L2+T20, T2+V11, T16+V4, T30+U1, T31+U1, U1+V1, L14+T24, L15+T7, L15+V8, and U1+U4 explicitly return to OPEN in Version 1.1; their earlier working meanings are revoked. The final four were removed specifically because their serial forms collided with the Canonical Phrases RAIN, HAND, MOUTH, and SOMETIMES.

7. Canonical Phrase Lexicon

Canonical Phrases are conventional sequential expressions that behave as one semantic constituent while remaining internally pronounceable as ordinary sequential sounds. They do not receive a special spoken enclosure.

When the form column names another Canonical Phrase such as PROMISE or NIGHT, that uppercase label is editorial shorthand for the referenced registered sound sequence; no English word is spoken.

Concept	Canonical form	Literal analysis	Status
WHAT	T3 - T Snare / L10 - P Kick	QUESTION / THING	Core
WHO	T3 - T Snare / V1 - Throat Bass	QUESTION / PERSON	Core
WHERE	T3 - T Snare / L12 - Zipper Burst	QUESTION / PLACE	Core
WHEN	T3 - T Snare / U4 - Evil Bass Sustained	QUESTION / TIME	Core
WHY	T3 - T Snare / T28 - D Pop	QUESTION / CAUSE	Core
HOW	T3 - T Snare / T7 - Duck Scratch Burst	QUESTION / DO	Core
EYE	L15 - Pop / T22 - Hollow Click	BODY / PERCEIVE	Core
EAR	L15 - Pop / T19+V8 - S Snare Burst + Cough Snare	BODY / HEAR	Core
HAND	L15 - Pop / T7 - Duck Scratch Burst	BODY / USE	Core
LUNG	L15 - Pop / L17 - Inward Ghost Whistle	BODY / BREATH	Core
SKIN	L15 - Pop / L18 - Lip Scratch	BODY / BOUNDARY	Core
MOUTH	L15 - Pop / V8 - Cough Snare	BODY / EXPRESS	Core
SMELL	L6 - Spit Snare / T22 - Hollow Click	AIR / PERCEIVE	Core
TASTE	L7 - F Snare / T22 - Hollow Click	FOOD / PERCEIVE	Core
COLOR	T22 - Hollow Click / T24+V6 - Hollow Clop + Throat Kick	PERCEIVE / DISTINGUISH	Core
CONTAINER	L10 - P Kick / L5 - Inward Lip Roll Sustained	THING / INSIDE	Core
MACHINE	L1+T7 - Lip Roll Burst + Duck Scratch Burst / T7+U1 - Duck Scratch Burst + K Snare	TOOL / FUNCTION	Core
WEAPON	L1+T7 - Lip Roll Burst + Duck Scratch Burst / T7+V4 - Duck Scratch Burst + Strained Voice	TOOL / HARM	Core

Concept	Canonical form	Literal analysis	Status
SHELTER	L12+L18 - Zipper Burst + Lip Scratch / L18+V2 - Lip Scratch + Chest Bass	ENCLOSURE / PROTECTION	Core
DOCUMENT	L1+V8 - Lip Roll Burst + Cough Snare / L10 - P Kick	RECORD / THING	Core
MAP	L10+V8 - P Kick + Cough Snare / L12 - Zipper Burst / L13 - Zipper Sustained	SIGN / PLACE / PATH	Extended
TRADE / EXCHANGE	T15 - Sh Scratch Burst / T19 - S Snare Burst	GIVE / RECEIVE	Core
PROPERTY	L10 - P Kick / T19+U1 - S Snare Burst + K Snare	THING / HAVE	Core
PROMISE	V8 - Cough Snare / U6 - Snore Bass / T7 - Duck Scratch Burst	EXPRESS / FUTURE / DO	Core
CONTRACT	L1+V8 - Lip Roll Burst + Cough Snare / PROMISE	RECORD / PROMISE	Core
LAW	L18+V6 - Lip Scratch + Throat Kick / T20 - S Snare Sustained	RULE / GATHER	Core
VIOLATE	T13 - Inward D Roll Burst / L18+V6 - Lip Scratch + Throat Kick	UNDO / RULE	Core
PEACE	U2 - Inward K Snare / T24+V4 - Hollow Clop + Strained Voice	NOT / CONFLICT	Core
FORGIVE	T21+T24 - Click + Hollow Clop / T28+V4 - D Pop + Strained Voice	RELEASE / DAMAGE	Core
TRUST	V6 - Throat Kick / V2 - Chest Bass	KNOW / GOOD	Core
SCHOOL	L12 - Zipper Burst / T16+V2 - Sh Scratch Sustained + Chest Bass	PLACE / TEACH	Core
MARKET	L12 - Zipper Burst / T15 - Sh Scratch Burst / T19 - S Snare Burst	PLACE / GIVE / RECEIVE	Core
COURT	L12 - Zipper Burst / L18+V6 - Lip Scratch + Throat Kick / T3 - T Snare	PLACE / RULE / QUESTION	Extended
GOVERNMENT	T20+V1 - S Snare Sustained + Throat Bass / T30+V1 - Chirp Whistle + Throat Bass / L18+V6 - Lip Scratch + Throat Kick	GROUP / LEADER / RULE	Extended
TODAY	U3 - Evil Bass Burst / L2+T8 - Lip Roll Sustained + Duck Scratch Sustained	NOW / DAY	Core
YESTERDAY	L4 - Inward Lip Roll Pop / U5 - Snore Kick / L2+T8 - Lip Roll Sustained + Duck Scratch Sustained	ONE / PAST / DAY	Core
TOMORROW	L4 - Inward Lip Roll Pop / U6 - Snore Bass / L2+T8 - Lip Roll Sustained + Duck Scratch Sustained	ONE / FUTURE / DAY	Core
NIGHT	U2 - Inward K Snare / L16+V10 - Ghost Whistle + Falsetto / U4 - Evil Bass Sustained	NOT / LIGHT / TIME	Core
DAWN	L16+V10 - Ghost Whistle + Falsetto / T17 - Ch Snare Burst	LIGHT / BEGIN	Core
DUSK	L16+V10 - Ghost Whistle + Falsetto / T29 - Sucker Punch	LIGHT / STOP	Core
SEASON	U4 - Evil Bass Sustained / T1 - T Roll Burst	TIME / CHANGE	Core
WIND	L6 - Spit Snare / T5 - T Hi-Hat	AIR / MOVE	Core
RAIN	L14 - Tennis Pop / T24 - Hollow Clop / T30 - Chirp Whistle	WATER / FROM / ABOVE	Core
RIVER	L14 - Tennis Pop / L13 - Zipper Sustained	WATER / PATH	Core
SMOKE	L6 - Spit Snare / T30 - Chirp Whistle / L2+T16 - Lip Roll Sustained + Sh Scratch Sustained	AIR / RISE / FIRE	Core

Concept	Canonical form	Literal analysis	Status
SUN	L16+V10 - Ghost Whistle + Falsetto / L2+T8 - Lip Roll Sustained + Duck Scratch Sustained	LIGHT / DAY	Extended
MOON	L16+V10 - Ghost Whistle + Falsetto / NIGHT	LIGHT / NIGHT	Extended
STAR	L16+V10 - Ghost Whistle + Falsetto / L9 - F Roll Sustained / T30 - Chirp Whistle	LIGHT / FAR / ABOVE	Extended
HUNGER	L7 - F Snare / V5 - Inward Voice	FOOD / WANT	Core
ANIMAL	L11+T24 - Inward P Kick + Hollow Clop / T5 - T Hi-Hat	ORGANISM / MOVE	Core
PLANT	L11+T24 - Inward P Kick + Hollow Clop / T2 - T Roll Sustained / T10 - Inward Duck Scratch Sustained	ORGANISM / GROW / REMAIN	Core
SHAPE	L10 - P Kick / L18 - Lip Scratch	THING / BOUNDARY	Core
POINT	L4 - Inward Lip Roll Pop / L12 - Zipper Burst	ONE / PLACE	Core
ANGLE	L13 - Zipper Sustained / T23 - Cheek Click / L13 - Zipper Sustained	PATH / JOIN / PATH	Extended
CIRCLE	L13 - Zipper Sustained / T12 - D Roll Sustained	PATH / CYCLE	Extended
MATHEMATICS	L19+T11 - Fart Roll + D Roll Burst / V6 - Throat Kick	NUMBER / KNOW	Extended
SCIENCE	T3 - T Snare / T22 - Hollow Click / T12 - D Roll Sustained / V6 - Throat Kick	QUESTION / PERCEIVE / CYCLE / KNOW	Extended
MUSIC	T11+V8 - D Roll Burst + Cough Snare / V3 - Inward Bass	RHYTHM / FEEL	Core
BEATBOXING	L15 - Pop / T11+V8 - D Roll Burst + Cough Snare / V8 - Cough Snare	BODY / RHYTHM / EXPRESS	Core
MELODY	V8 - Cough Snare / T30 - Chirp Whistle / T31 - Saxophone	EXPRESS / RISE / FALL	Extended
FAST	T5 - T Hi-Hat / T30 - Chirp Whistle	MOVE / HIGH	Core
SLOW	T5 - T Hi-Hat / T31 - Saxophone	MOVE / LOW	Core
OUTSIDE	U2 - Inward K Snare / L5 - Inward Lip Roll Sustained	NOT / INSIDE	Core
BETWEEN	T23 - Cheek Click / T24 - Hollow Clop	JOIN / SEPARATE	Core
ALWAYS	U4 - Evil Bass Sustained / T20 - S Snare Sustained	TIME / ALL	Core
OFTEN	L19 - Fart Roll / U4 - Evil Bass Sustained	MANY / TIME	Core
SOMETIMES	U1 - K Snare / U4 - Evil Bass Sustained	EXIST / TIME	Core
NEVER	U2 - Inward K Snare / U4 - Evil Bass Sustained	NOT / TIME	Core
OR	T24 - Hollow Clop / T23 - Cheek Click	SEPARATE / JOIN	Core
EACH / EVERY	T20 - S Snare Sustained / T11 - D Roll Burst	ALL / REPEAT	Core
CORRELATE	T23 - Cheek Click / U4 - Evil Bass Sustained	JOIN / TIME	Extended
WELCOME	V10 - Falsetto / T27 - Inward Hollow Whistle Sustained / T9 - Inward Duck Scratch Burst	YOU / MAY / COME	Core

7.1 Productive Templates

Template	Function	Example
PERSON + ACTION/FUNCTION	Role-holder	V1 - Throat Bass / T16+V2 - Sh Scratch Sustained + Chest Bass = teacher
PLACE + ACTIVITY	Activity-place	PLACE / TEACH = school-like teaching place
NOT + STATE	Absence/opposite	U2 - Inward K Snare / L5 - Inward Lip Roll Sustained = outside
NUMBER + UNIT	Measurement	Number Mode value followed by conventional unit name
NOUN + DESCRIPTION	Modification	EYE / RED = red eye

8. Clause Grammar

DEFAULT CLAUSE FRAME

[TIME] - SUBJECT - PREDICATE - OBJECT - [RELATION / LOCATION]

The language is broadly SVO. There are no articles, no grammatical gender, no verb conjugation, no noun declension, and no mandatory singular/plural agreement. Time, number, and aspect are stated when relevant.

8.1 Commands

Commands normally omit the subject. T19 - S Snare Burst / L14 - Tennis Pop = RECEIVE / WATER, naturally "Take the water."

8.2 Indirect Objects

For GIVE, TEACH, SHOW, and SEND-like predicates: SUBJECT - VERB - OBJECT - RECIPIENT. If the object-recipient boundary would form a registered serial lexeme, insert a Structural Juncture at that boundary; for example WATER | SELF/ME is L14 - Tennis Pop | V11 - Normal Voice, because unbroken L14 / V11 means RIGHT.

8.3 Canonical Phrase Scope

A Canonical Phrase occupying one grammatical slot is interpreted as one constituent. Attributes attach after the completed phrase. Structural Juncture can disambiguate a phrase from an ordinary clause when both parses are possible.

9. Questions, Negation, Modality, and Coordination

9.1 Negation

U2 - Inward K Snare immediately precedes the element it negates. Alone, U2 means NO and U1 - K Snare means YES. A registered polyphonic/serial lexeme is atomic for external negation. Consecutive U2 negations nest rightward.

9.2 Yes/No and WH Questions

A yes/no question uses T3 - T Snare followed by Structural Juncture, then the clause: T3 | clause. WH expressions keep T3 directly sequential with the category root: T3 / L10 = WHAT, T3 / V1 = WHO, T3 / L12 = WHERE, T3 / U4 = WHEN, T3 / T28 = WHY, T3 / T7 = HOW.

9.3 Modality

Function	Form	Interpretation
CAN / ABLE	T7+U1 - Duck Scratch Burst + K Snare	FUNCTION/OPERATE before predicate
MAY / ALLOWED	T27 - Inward Hollow Whistle Sustained	permission

Function	Form	Interpretation
NEED	L5+V5 - Inward Lip Roll Sustained + Inward Voice	inner necessity
MUST / REQUIRED	RULE / NEED	externally imposed obligation

9.4 Coordination

Relation	Form
AND / WITH	T23 - Cheek Click
BUT / CONTRAST	T24 - Hollow Clap between clauses
OR	T24 - Hollow Clap / T23 - Cheek Click
WHILE	T23 - Cheek Click between clauses

OR receives longest registered grammatical match. T24 | T23 forces the separate meanings SEPARATE | JOIN rather than OR.

10. Time, Aspect, Conditionals, and Reported Content

Function	Form
NOW	U3 - Evil Bass Burst
TIME / DURATION	U4 - Evil Bass Sustained
PAST / BEFORE	U5 - Snore Kick
FUTURE / AFTER	U6 - Snore Bass
BEGIN	T17 - Ch Snare Burst
CONTINUE	T18 - Ch Snare Sustained
STOP	T29 - Sucker Punch
REPEAT / AGAIN	T11 - D Roll Burst

10.1 Conditionals

Meaning	Form
IF	T26 - Inward Hollow Whistle Burst
COUNTERFACTUAL IF	T26 - Inward Hollow Whistle Burst / T24 - Hollow Clap
UNLESS	T24 - Hollow Clap / T26 - Inward Hollow Whistle Burst

IF and UNLESS antecedents require a Structural Juncture before the consequent: IF / antecedent | consequent. COUNTERFACTUAL IF is T26 - Inward Hollow Whistle Burst / T24 - Hollow Clap (IF / SEPARATE: an alternative-to-actuality condition); UNLESS reverses the order as T24 / T26 (SEPARATE / IF). The earlier T26 / U2 counterfactual form is obsolete because it collides with the registered serial allomorph of T26+U2 = CLOSE.

10.2 Reported Speech and Thought

A clause following V8 - Cough Snare (EXPRESS) or V9 - Vocal Polyphonic (THINK) may serve as its content. The content extends to the next Structural Juncture or sentence end. If the matrix clause resumes, a Juncture is mandatory.

11. Noun Phrases, Possession, Quantification, and Comparison

NOUN PHRASE ORDER

QUANTITY -> DEMONSTRATIVE -> NOUN -> DESCRIPTION

11.1 Possession

Possessor precedes possessed. Possessive chains group left-to-right. Attributes attach to the nearest complete noun phrase.

11.2 Quantification

Meaning	Pattern
some / there exists	U1 + noun
none / no	U2 + noun
one	L4 + noun
many	L19 + noun
all	noun + T20
each / every	T20 / T11 + category
very / greatly	quality + L2

11.3 Comparison

Relation	Pattern
more / higher	X / PROPERTY / T30 / Y
less / lower	X / PROPERTY / T31 / Y
equal / same	X / PROPERTY / T11 / Y

12. Relative Clauses and Discourse Reference

12.1 Relative Clauses

L18 - Lip Scratch opens and closes a relative clause: NOUN / L18 / relative clause / L18. Version 1.1 does not permit nested relative clauses in canonical speech. Combine predicates with T23 where possible or split the thought into another sentence.

12.2 Recall Construction

Reference	Form
previous person	T11 / V1
previous thing	T11 / L10
previous place	T11 / L12
previous event	T11 / T7
previous statement / claim	T11 / T24+V8

12.3 Indexed Recall

If two or more same-category referents are active, Indexed Recall is mandatory. Temporary indices follow order of introduction within the current discourse episode: T11 / CATEGORY / NUMBER[n]. Unindexed Recall becomes valid again when only one referent is salient.

13. Cause, Evidence, Belief, and Argument

Concept	Form / rule
CAUSE	T28 - D Pop between propositions
EVIDENCE	T22 - Hollow Click in discourse position: CLAIM / T22 / EVIDENCE
CORRELATION	T23 / U4 between events
BELIEVE	V9 / U1+V6
CERTAIN	V6 / U1+V6
DOUBT	U2 / V6

Concept	Form / rule
POSSIBLE	T26 / U1
IMPOSSIBLE	U2 / T26 / U1
LIKELY	T30 / T26 / U1
UNLIKELY	T31 / T26 / U1

14. Number and Calculation Mode

L19+T11 - Fart Roll + D Roll Burst has the metalinguistic lexical meaning NUMBER / NUMERICAL CONCEPT when a single occurrence appears as an ordinary constituent outside a mode enclosure. A matched opening and closing pair invokes Number/Calculation Mode; its registered serial allomorph L19 - Fart Roll / T11 - D Roll Burst may also delimit the mode. Mode-specific interpretation outranks ordinary lexical meaning. This dual lexical/grammatical use parallels L10+V8 - P Kick + Cough Snare as SIGN / SYMBOL and Sound Citation.

Digit	Sound
0	U2 - Inward K Snare
1	L10 - P Kick
2	T5 - T Hi-Hat
3	U1 - K Snare
4	T21 - Click
5	L15 - Pop
6	L14 - Tennis Pop
7	T28 - D Pop
8	L7 - F Snare
9	T19 - S Snare Burst

L18 - Lip Scratch inside Number Mode marks a decimal boundary. T24 - Hollow Clap before a number marks a negative value.

14.1 Calculation Operators

Operation	Sound
+	T23 - Cheek Click
-	T24 - Hollow Clap
x	T20 - S Snare Sustained
/	T24 - Hollow Clap / T20 - S Snare Sustained
=	T11 - D Roll Burst
>	T30 - Chirp Whistle
<	T31 - Saxophone

14.2 Mode Nesting and Escapes

Number/Calculation Mode and Sound Citation Mode cannot nest. A delimiter doubled while already inside its own mode represents one literal occurrence of that delimiter as content.

15. Names and Sound Citation

L10+V8 - P Kick + Cough Snare means SIGN / SYMBOL and serves as the paired enclosure for Sound Citation and proper-name material. Its serial allomorph may also delimit citation.

Sound Citation example: L10+V8 / L10 - P Kick / L10+V8 means “the P Kick sound” rather than the lexical root THING.

Recommended proper-name pattern: CATEGORY / SIGN-OPEN / canonical name sequence / SIGN-CLOSE. Ordinary names should preferably use two to four sequential monophonic sounds; polyphonic artistic names are optional.

16. Space, Timekeeping, and Dates

Relation	Form
LEFT	L14+V10 - Tennis Pop + Falsetto
RIGHT	L14+V11 - Tennis Pop + Normal Voice
FRONT / AHEAD	T30+V10 - Chirp Whistle + Falsetto
BACK / BEHIND	T31+V10 - Saxophone + Falsetto
UP / ABOVE	T30 - Chirp Whistle
DOWN / BELOW	T31 - Saxophone
TOWARD	T25 - Inward L Roll
FROM / AWAY	T24 - Hollow Clap
NEAR	L8 - F Roll Burst
FAR	L9 - F Roll Sustained
INSIDE	L5 - Inward Lip Roll Sustained
DIRECTION	L13+T25 - Zipper Sustained + Inward L Roll

Compass direction may use DIRECTION followed by a numerical bearing: 0 degrees north, 90 east, 180 south, 270 west. The system is intentionally compatible with conventional geographic naming.

16.1 Clock Time

Version 1.1 uses a 24-hour clock. U4 - Evil Bass Sustained introduces an exact time and may separate hour, minute, and optional second fields in technical notation.

16.2 Dates

Canonical date order is YEAR - MONTH - DAY. Calendar systems and measurement units may use conventional names rather than consuming semantic roots.

17. Conversational Repair and Pragmatics

Function	Form	Meaning
YES	U1 - K Snare	affirmative
NO	U2 - Inward K Snare	negative
I understand	V11 - Normal Voice / V6 - Throat Kick	SELF / KNOW
I do not understand	V11 - Normal Voice / U2 - Inward K Snare / V6 - Throat Kick	SELF / NOT / KNOW
Repeat?	T3 - T Snare T11 - D Roll Burst	QUESTION REPEAT
Polite request	T3+T19 - T Snare + S Snare Burst requested clause	REQUEST clause
Correction	X T13 - Inward D Roll Burst Y	cancel preceding constituent and replace with Y
Thank you	V11 - Normal Voice / T19+V2 - S Snare Burst + Chest Bass / T24 - Hollow Clap V10 - Falsetto	SELF / BENEFIT / FROM / YOU
Apology	V11 - Normal Voice / T13+V5 - Inward D Roll Burst + Inward Voice / T28+V4 - D Pop + Strained Voice	SELF / REGRET / DAMAGE

T13 functions as the Repair Operator only when isolated between Structural Junctures. Otherwise it retains REVERSE / UNDO. There is no dedicated turn-ending sound; floor-taking remains pragmatic.

18. Acoustic Production and Registers

18.1 Conversational vs Full Articulatory Register

Conversational Register uses short, controlled, low-effort realizations. Full Articulatory Register uses fuller Beatbox Alchemy resonance, duration, and rhythmic projection. Both use the same lexemes and grammar.

18.2 Breath Reset Principle

Silent respiratory resets may occur at constituent or Structural Juncture boundaries without changing meaning. Sequential inward-to-outward or outward-to-inward switching is legal. Airflow compatibility constrains simultaneous fusion, not ordinary syntax.

18.3 Production Load Bands

Band	Description	Examples
A	Low-load/local-mechanical and ordinary voice sounds	V11, T3, L10, L12, L14, L7, T5, T7, T15, T19, T21, T22, V6, T11, T28
B	Moderate sustained, bass, falsetto, or inward-airflow control	U1, U2, V10, V1, V2, T8 and related developed-control roots
C	High-care vocal effects in sustained conversation	especially V4 Strained Voice, V5 Inward Voice, V8 Cough Snare

Difficulty never changes semantics. Learners may acquire recognition and analytic use before full production mastery, and may use registered serial allomorphs whenever polyphony is not comfortable.

19. Phonoglyph Orthography and Symbol Descriptors

The writing system is phonographic. Meaning does not determine glyph shape. The textual Symbol Descriptor is the canonical reconstruction standard for each root; drawn illustrations and fonts are implementations.

19.1 Controlled Geometric Vocabulary

Descriptors use a small controlled vocabulary: ring, small ring, double ring, arch, U-curve, diamond, square, triangle, chevron, stem, bar, hook, curl, notch, tick, zigzag, fork, diagonal, and broken/open forms.

19.2 Orthographic Rules

Rule	Version 1.1 standard
Sequence	Write sequential complete glyphs left-to-right and top-to-bottom.
Polyphony	Overlap complete component glyphs; move either only enough to keep both recognizable.
Serial allomorph	Write the same complete component glyphs sequentially with no Structural Juncture mark between them.
Analytic separation	Structural Juncture breaks a serial lexical match.
Inward modifier	Lower-left of the base; shown as < in descriptor notation.
Sustained modifier	Lower-right of the base; shown as - in descriptor notation.
Tick vs stem	Tick is short (about $\leq 1/4$ ring diameter); stem is substantially longer (about $\geq 1/2$).
Handwriting	Curvature, slant, line thickness, and stroke order may vary; contrastive geometry may not disappear.
Mode delimiters	Use the actual spoken glyph or registered serial allomorph; modes do not nest.
Silent punctuation	Optional punctuation may aid readers but cannot replace spoken grammatical operators.

19.3 Collision-Safe Descriptor Corrections

The canonical descriptor for L12 - Zipper Burst is Arch + right top tick, distinguishing it from U1 - K Snare (Arch + center top stem). L15 - Pop is Small ring + bottom tick, distinguishing it from T21 - Click (Ring) and T28 - D Pop (Small ring + top stem). T1 uses inward hooks while T11 uses inward curls. V11 uses a right tick while T23 uses a right stem.

20. Learning and Certification

Milestone	Expected competence
Foundation-24	Basic conversational kernel; learn meanings and low-effort production.
Root-67	All monophonic roots; full analytic communication.
Fusion-50	Original 50 high-value polyphonic words plus serial allomorphs.
Core-90	Full public Core polyphonic vocabulary.
Conversational Fluency	Spontaneous conversation, repair, narrative, and reference tracking.
Technical Fluency	Numbers, citation, explanation, evidence, logic, and technical teaching.
Performance Fluency	Recoverable semantic content inside rhythmic polyphonic performance.

Recognition (R), analytic/serial use (A), and production (P) are separate mastery dimensions. Polyphonic Compression Rate (PCR) is a training metric, not a grammatical requirement.

20.1 Polyphonic Compression

For a passage with M serial monophonic events and F eligible binary fusions realized polyphonically, the advanced event count is $A = M - F$. With only binary fusion, theoretical maximum event-count reduction is 50%. Actual timing compression must be measured from recordings because roots differ in duration and effort.

21. Empirical Validation Standard

Version 1.1 distinguishes linguistic validity from production readiness. A lexeme remains semantically valid through its serial allomorph even if its polyphonic form has not yet passed conversational testing.

Tag	Meaning
SV	Serial Valid: serial allomorph established
PV	Polyphonically Verified: overlap reproduced reliably
CR	Conversation-Ready: reliable, intelligible, comfortable at conversational intensity
PR	Performance-Ready: stable at prepared rhythmic/performance intensity and across sessions

Initial Conversation-Ready guideline: Fusion Reliability $\geq 80\%$, blind lexical recognition $\geq 80\%$, median polyphonic duration no slower than serial after familiarization, perceived effort $\leq 3/5$, and no safety stop. These are empirical thresholds, not lexical definitions.

Appendix A. Foundation-24

Code	Full sound name	Meaning	Priority
V11	Normal Voice	SELF / I / ME	F1
V10	Falsetto	YOU	F1
U1	K Snare	BE / EXIST / PRESENT	F1 / G1
U2	Inward K Snare	NOT / ABSENT	F1 / G1
T3	T Snare	QUESTION / ASK	F1 / G1
L10	P Kick	THING / OBJECT	F1
L12	Zipper Burst	PLACE / SPACE	F1
L14	Tennis Pop	WATER / LIQUID	F1
L7	F Snare	FOOD / NOURISHMENT	F1
V1	Throat Bass	PERSON / OTHER	F1
T5	T Hi-Hat	MOVE / GO	F1
T7	Duck Scratch Burst	DO / USE	F1

Code	Full sound name	Meaning	Priority
T15	Sh Scratch Burst	GIVE / SEND	F1
T19	S Snare Burst	TAKE / RECEIVE	F1
T21	Click	TOUCH / CONTACT	F1
T22	Hollow Click	PERCEIVE / SEE	F1 / G1
V5	Inward Voice	WANT / DESIRE	F1
V6	Throat Kick	KNOW / UNDERSTAND	F1
V8	Cough Snare	SPEAK / EXPRESS	F1
V2	Chest Bass	GOOD / WELL / STRONG	F1
V4	Strained Voice	BAD / WRONG / HARMFUL	F1
T8	Duck Scratch Sustained	PRACTICE / TRAIN	F1
T11	D Roll Burst	SAME / REPEAT	F1 / G1
T28	D Pop	MAKE / CREATE / CAUSE	F1

Appendix B. Core-90 Quick List

#	Code	Meaning
1	T19+V6	LEARN
2	L1+T7	TOOL / IMPLEMENT
3	L14+T19	DRINK
4	T19+U1	HAVE / POSSESS
5	T7+V2	HELP / ASSIST
6	T7+V4	HARM
7	T16+V2	TEACH
8	T7+U1	FUNCTION / OPERATE; CAN before predicate
9	L18+V6	RULE / KNOWN LIMIT
10	U1+V6	TRUTH / FACT
11	L12+V5	HOME
12	L13+V5	DESTINATION
13	L12+T13	RETURN / GO BACK
14	L18+U1	WALL / BARRIER
15	L18+V2	PROTECTION / SAFETY
16	T11+V6	REMEMBER
17	T22+V1	RECOGNIZE
18	T23+V6	AGREE / SHARED UNDERSTANDING
19	T23+V5	BELONG / BELONGING
20	T23+V2	COOPERATE / ALLIANCE
21	T23+V3	LOVE / AFFECTION
22	T24+V3	FEAR / AVERSION
23	T13+V5	REGRET
24	T14+V3	RELIEF
25	U6+V5	HOPE
26	L15+V2	HEALTH / HEALTHY
27	L15+V4	PAIN
28	L15+T28	BIRTH / GENERATE LIFE
29	L16+T28	KILL / CAUSE DEATH
30	L16+U1	CORPSE / DEAD BODY
31	T21+V8	SOUND / ACOUSTIC EVENT
32	T24+V8	WORD / DISTINCT UTTERANCE
33	L10+V8	SIGN / SYMBOL; citation/name enclosure
34	L1+V8	RECORD / INSCRIPTION

#	Code	Meaning
35	L18+V8	DEFINITION
36	L2+T16	FIRE
37	L2+T12	HOT / HEAT
38	L5+T13	COLD
39	L16+V10	LIGHT / ILLUMINATION
40	L2+T8	DAY / LOCAL DAY-CYCLE
41	T15+V11	RED
42	T15+V10	YELLOW
43	T19+V11	GREEN
44	T19+V10	BLUE
45	T4+V10	WHITE
46	T4+V11	BLACK
47	U3+V2	JOY / HAPPINESS
48	U3+V4	SADNESS / SORROW
49	T30+V4	ANGER
50	T9+V3	SURPRISE
51	T3+T19	REQUEST / ASK FOR
52	T15+U1	PROVIDE / SUPPLY
53	T15+V5	OFFER
54	T19+V2	BENEFIT
55	T19+V8	HEAR / LISTEN
56	L7+T19	EAT
57	T24+U6	FAREWELL / GOODBYE
58	T20+V1	GROUP / ASSEMBLY
59	T20+V8	LANGUAGE
60	T21+V1	MEET
61	T23+V10	PARTNER / COMPANION
62	T23+V11	FAMILY / KIN
63	T28+V1	PARENT / CREATOR
64	T28+V2	HEAL / REPAIR
65	T28+V4	DAMAGE
66	T28+V5	INTEND
67	T5+V9	PLAN
68	T22+U6	PREDICT / FORESEE
69	U3+V8	NEWS / UPDATE
70	L10+V9	MODEL
71	L13+T25	DIRECTION
72	L18+U4	DEADLINE / TIME LIMIT
73	T11+U1	STABLE / UNCHANGED
74	T30+V8	SHOUT / LOUD EXPRESSION
75	T16+U5	TRADITION / HERITAGE
76	T11+V8	RHYTHM
77	T21+T24	RELEASE / LET GO
78	T23+V8	DIALOGUE / CONVERSE
79	T24+V6	DISTINGUISH
80	T26+U2	CLOSE / SHUT
81	T27+U2	FORBID
82	T27+V5	CONSENT
83	U1+V4	PROBLEM / HARMFUL STATE

#	Code	Meaning
84	U4+V1	AGE / LIFESPAN
85	L14+V10	LEFT
86	L14+V11	RIGHT
87	L11+T24	ORGANISM / INDIVIDUAL LIVING ENTITY
88	L15+U4	SLEEP
89	T30+V10	FRONT / AHEAD
90	T31+V10	BACK / BEHIND

Appendix C. Grammar Quick Reference

Function	Form
Default clause	[TIME] - SUBJECT - PREDICATE - OBJECT - [RELATION/LOCATION]
Structural Juncture	
Yes/no question	T3 clause
WHAT	T3 / L10
WHO	T3 / V1
WHERE	T3 / L12
WHEN	T3 / U4
WHY	T3 / T28
HOW	T3 / T7
NOT	U2 before target
AND / WITH	T23
BUT	T24 between clauses
OR	T24 / T23
IF	T26
COUNTERFACTUAL IF	T26 / T24
UNLESS	T24 / T26
Relative clause	L18 ... L18; no nesting
Recall	T11 / CATEGORY
Indexed Recall	T11 / CATEGORY / NUMBER[n]
Number Mode	L19+T11 ... L19+T11
Citation / names	L10+V8 ... L10+V8
Repair	X T13 Y
Collision block	Insert between independent constituents that would otherwise form a registered serial lexeme

Appendix D. Symbol Descriptor Quick Reference

Global default: center dot unless stated. < = inward airflow. - = sustained. No modifier = default/burst for the registered family. These textual descriptors, not any particular drawing, are the canonical root-symbol definitions.

Code	Sound	Descriptor
L1	Lip Roll Burst	Open ring + twin lower hooks
L2	Lip Roll Sustained	L1 + -
L3	Inward Lip Roll Burst	L1 + <
L4	Inward Lip Roll Pop	Small ring + left notch
L5	Inward Lip Roll Sustained	L1 + < -
L6	Spit Snare	Diamond + bottom stem
L7	F Snare	Square + bottom stem
L8	F Roll Burst	Ring + left diagonal

Code	Sound	Descriptor
L9	F Roll Sustained	L8 + -
L10	P Kick	Ring + bottom stem
L11	Inward P Kick	Ring + lower-left notch
L12	Zipper Burst	Arch + right top tick
L13	Zipper Sustained	L12 + -
L14	Tennis Pop	Broken-bottom ring + bottom stem
L15	Pop	Small ring + bottom tick
L16	Ghost Whistle	Open diamond + top stem
L17	Inward Ghost Whistle	L16 + <
L18	Lip Scratch	Vertical zigzag
L19	Fart Roll	Double arch + bottom stem
T1	T Roll Burst	Arch + twin inward hooks
T2	T Roll Sustained	T1 + -
T3	T Snare	Top bar + down stem + lower U
T4	Tsh Snare	T3 + right diagonal
T5	T Hi-Hat	Inverted triangle + center stem
T6	Ts Hi-Hat	Inverted triangle + forked center stem
T7	Duck Scratch Burst	Arch + twin outward hooks
T8	Duck Scratch Sustained	T7 + -
T9	Inward Duck Scratch Burst	T7 + <
T10	Inward Duck Scratch Sustained	T7 + < -
T11	D Roll Burst	Arch + twin inward curls
T12	D Roll Sustained	T11 + -
T13	Inward D Roll Burst	T11 + <
T14	Inward D Roll Sustained	T11 + < -
T15	Sh Scratch Burst	Arch + left zigzag terminal
T16	Sh Scratch Sustained	T15 + -
T17	Ch Snare Burst	Arch + right zigzag terminal
T18	Ch Snare Sustained	T17 + -
T19	S Snare Burst	Arch + left notch
T20	S Snare Sustained	T19 + -
T21	Click	Ring
T22	Hollow Click	Double ring
T23	Cheek Click	Ring + right stem
T24	Hollow Clap	Broken-bottom double ring
T25	Inward L Roll	J-curve + top hook
T26	Inward Hollow Whistle Burst	Open diamond + <
T27	Inward Hollow Whistle Sustained	T26 + -
T28	D Pop	Small ring + top stem
T29	Sucker Punch	Square + top stem
T30	Chirp Whistle	Up-chevron + bottom stem
T31	Saxophone	Down-chevron + top stem
U1	K Snare	Arch + center top stem
U2	Inward K Snare	U1 + <
U3	Evil Bass Burst	Wide U + twin top hooks
U4	Evil Bass Sustained	U3 + -
U5	Snore Kick	Arch + bottom stem
U6	Snore Bass	Arch + twin bottom stems
V1	Throat Bass	U-curve + bottom stem
V2	Chest Bass	Ring + top and bottom stems
V3	Inward Bass	U-curve + left hook
V4	Strained Voice	U-curve + center zigzag

Code	Sound	Descriptor
V5	Inward Voice	U-curve + twin inward top hooks
V6	Throat Kick	U-curve + detached top stem
V7	Double Voice	Double U-curve
V8	Cough Snare	Arch + forked bottom stem
V9	Vocal Polyphonic	Ring + inner vertical split
V10	Falsetto	U-curve + top stem
V11	Normal Voice	Ring + right tick

Appendix E. Public Status and Change Control

Version 1.1 is the public-release freeze after the grammar, lexicon, writing architecture, ambiguity stress test, conversation stress test, acoustic production stress test, empirical protocol, and final cross-document consistency audit. This consolidated corrected edition supersedes all earlier Version 1.1 master, audited, final, and quickstart exports.

Final release audit corrections include: COUNTERFACTUAL IF = T26 - Inward Hollow Whistle Burst / T24 - Hollow Clop; previous-statement Recall = T11 - D Roll Burst / T24+V8 - Hollow Clop + Cough Snare; revocation of collision-prone Extended fusions L14+T24, L15+T7, L15+V8, and U1+U4; SCIENCE = T3 - T Snare / T22 - Hollow Click / T12 - D Roll Sustained / V6 - Throat Kick; and elimination of the duplicate T19+V10 assignment by retaining BLUE and promoting L7+T19 - F Snare + S Snare Burst = EAT to Core entry 56. WELCOME is therefore the Canonical Phrase V10 - Falsetto / T27 - Inward Hollow Whistle Sustained / T9 - Inward Duck Scratch Burst (YOU / MAY / COME). After these corrections, Core-90 contains 90 unique fusion codes and the Extended lexicon contains 84 retained fusion codes.

A future Version 1.2 or 2.0 should document every changed root, compound, grammar rule, or descriptor. OPEN sound combinations remain available for community growth, but proposed meanings should be evaluated for usefulness, physical reliability, collision risk, and analytic alternatives before adoption.

The language is intended to remain learnable without advanced beatboxing. Polyphonic mastery increases compression and performance density; it does not determine whether a speaker is linguistically competent.